



SEQUENCE LISTING

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<120> PROTEOME EPITOPE TAGS AND METHODS OF USE THEREOF IN PROTEIN
MODIFICATION ANALYSIS

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Val Phe Leu Leu Ser Leu Leu Gly Asn Ser Leu Val Met Leu Val Ile
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Leu Tyr Ser Arg Val Gly Arg Ser Val Thr Asp Val Tyr Leu Leu Asn
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Leu Ala Leu Ala Asp Leu Leu Phe Ala Leu Thr Leu Pro Ile Trp Ala
85 90 95

Ala Ser Lys Val Asn Gly Trp Ile Phe Gly Thr Phe Leu Cys Lys Val
100 105 110

Val Ser Leu Leu Lys Glu Val Asn Phe Tyr Ser Gly Ile Leu Leu Leu
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Ala	Cys	Ile	Ser	Val	Asp	Arg	Tyr	Leu	Ala	Ile	Val	His	Ala	Thr	Arg	130	135	140	
Thr	Leu	Thr	Gln	Lys	Arg	His	Leu	Val	Lys	Phe	Val	Cys	Leu	Gly	Cys	145	150	155	160
Trp	Gly	Leu	Ser	Met	Asn	Leu	Ser	Leu	Pro	Phe	Phe	Leu	Phe	Arg	Gln	165	170	175	
Ala	Tyr	His	Pro	Asn	Asn	Ser	Ser	Pro	Val	Cys	Tyr	Glu	Val	Leu	Gly	180	185	190	
Asn	Asp	Thr	Ala	Lys	Trp	Arg	Met	Val	Leu	Arg	Ile	Leu	Pro	His	Thr	195	200	205	
Phe	Gly	Phe	Ile	Val	Pro	Leu	Phe	Val	Met	Leu	Phe	Cys	Tyr	Gly	Phe	210	215	220	
Thr	Leu	Arg	Thr	Leu	Phe	Lys	Ala	His	Met	Gly	Gln	Lys	His	Arg	Ala	225	230	235	240
Met	Arg	Val	Ile	Phe	Ala	Val	Val	Leu	Ile	Phe	Leu	Leu	Cys	Trp	Leu	245	250	255	
Pro	Tyr	Asn	Leu	Val	Leu	Leu	Ala	Asp	Thr	Leu	Met	Arg	Thr	Gln	Val	260	265	270	
Ile	Gln	Glu	Ser	Cys	Glu	Arg	Arg	Asn	Asn	Ile	Gly	Arg	Ala	Leu	Asp	275	280	285	
Ala	Thr	Glu	Ile	Leu	Gly	Phe	Leu	His	Ser	Cys	Leu	Asn	Pro	Ile	Ile	290	295	300	
Tyr	Ala	Phe	Ile	Gly	Gln	Asn	Phe	Arg	His	Gly	Phe	Leu	Lys	Ile	Leu	305	310	315	320
Ala	Met	His	Gly	Leu	Val	Ser	Lys	Glu	Phe	Leu	Ala	Arg	His	Arg	Val	325	330	335	
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35 40 45

Leu Tyr Ala Val Arg Ser Glu Arg Lys Leu His Thr Val Gly Asn Leu
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Tyr Ile Val Ser Leu Ser Val Ala Asp Leu Ile Val Gly Ala Val Val
65 70 75 80

Met Pro Met Asn Ile Leu Tyr Leu Leu Met Ser Lys Trp Ser Leu Gly
85 90 95

Arg Pro Leu Cys Leu Phe Trp Leu Ser Met Asp Tyr Val Ala Ser Thr
100 105 110

Ala Ser Ile Phe Ser Val Phe Ile Leu Cys Ile Asp Arg Tyr Arg Ser
115 120 125

Val Gln Gln Pro Leu Arg Tyr Leu Lys Tyr Arg Thr Lys Thr Arg Ala
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Ser Ala Thr Ile Leu Gly Ala Trp Phe Leu Ser Phe Leu Trp Val Ile
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Pro Ile Leu Gly Trp Asn His Phe Met Gln Gln Thr Ser Val Arg Arg
165 170 175

Glu Asp Lys Cys Glu Thr Asp Phe Tyr Asp Val Thr Trp Phe Lys Val
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Met Thr Ala Ile Ile Asn Phe Tyr Leu Pro Thr Leu Leu Met Leu Trp
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Phe Tyr Ala Lys Ile Tyr Lys Ala Val Arg Gln His Cys Gln His Arg
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Glu Leu Ile Asn Arg Ser Leu Pro Ser Phe Ser Glu Ile Lys Leu Arg
225 230 235 240

Pro Glu Asn Pro Lys Gly Asp Ala Lys Lys Pro Gly Lys Glu Ser Pro
245 250 255

Trp Glu Val Leu Lys Arg Lys Pro Lys Asp Ala Gly Gly Gly Ser Val
260 265 270

Leu Lys Ser Pro Ser Gln Thr Pro Lys Glu Met Lys Ser Pro Val Val
275 280 285

Phe Ser Gln Glu Asp Asp Arg Glu Val Asp Lys Leu Tyr Cys Phe Pro
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Leu Asp Ile Val His Met Gln Ala Ala Ala Glu Gly Ser Ser Arg Asp
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Tyr Val Ala Val Asn Arg Ser His Gly Gln Leu Lys Thr Asp Glu Gln
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Gly Leu Asn Thr His Gly Ala Ser Glu Ile Ser Glu Asp Gln Met Leu
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Gly Asp Ser Gln Ser Phe Ser Arg Thr Asp Ser Asp Thr Thr Thr Glu
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Thr Ala Pro Gly Lys Gly Lys Leu Arg Ser Gly Ser Asn Thr Gly Leu
370 375 380

Asp Tyr Ile Lys Phe Thr Trp Lys Arg Leu Arg Ser His Ser Arg Gln
385 390 395 400

Tyr Val Ser Gly Leu His Met Asn Arg Glu Arg Lys Ala Ala Lys Gln
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Leu Gly Phe Ile Met Ala Ala Phe Ile Leu Cys Trp Ile Pro Tyr Phe
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Ile Phe Phe Met Val Ile Ala Phe Cys Lys Asn Cys Cys Asn Glu His
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Leu His Met Phe Thr Ile Trp Leu Gly Tyr Ile Asn Ser Thr Leu Asn
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Ala Phe Leu Leu Phe Leu Val Leu

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1 5

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Ile Phe Trp Phe Ser Leu Glu Ile
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Leu Glu Ile Gln Asp Leu Glu Glu

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Glu Ile Gln Asp Leu Glu Glu Pro

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Ala Glu Ala Ala Val Lys Pro Leu

1 5

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Glu Ala Ala Val Lys Pro Leu Leu
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Val Ala Val Ile Gln Glu Ile Gln

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1 5

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1 5

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1 5

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1 5

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<400> 767

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1 5

<210> 1220

<211> 8

<212> PRT

<213> Human severe acute respiratory syndrome virus

<400> 1220

Phe Ser Pro Ala Gln Asp Thr Trp
1 5

<210> 1221
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<212> PRT
<213> Human severe acute respiratory syndrome virus

<400> 1221
Ser Pro Ala Gln Asp Thr Trp Gly
1 5

<210> 1222
<211> 8
<212> PRT
<213> Human severe acute respiratory syndrome virus

<400> 1222
Asp Ala Leu Cys Glu Lys Ala Ser
1 5

<210> 1223
<211> 8
<212> PRT
<213> Human severe acute respiratory syndrome virus

<400> 1223
Ala Leu Cys Glu Lys Ala Ser Lys
1 5

<210> 1224
<211> 8
<212> PRT
<213> Human severe acute respiratory syndrome virus

<400> 1224
Leu Cys Glu Lys Ala Ser Lys Tyr
1 5

<210> 1225
<211> 8
<212> PRT
<213> Human severe acute respiratory syndrome virus

<400> 1225
Cys Glu Lys Ala Ser Lys Tyr Leu
1 5

<210> 1226
<211> 8
<212> PRT
<213> Human severe acute respiratory syndrome virus

<400> 1226
Glu Lys Ala Ser Lys Tyr Leu Pro
1 5

<210> 1227
<211> 8
<212> PRT
<213> Human severe acute respiratory syndrome virus

<400> 1227
Lys Ala Ser Lys Tyr Leu Pro Ile
1 5

<210> 1228
<211> 8
<212> PRT
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<400> 1228
Ala Ser Lys Tyr Leu Pro Ile Asp
1 5

<210> 1229
<211> 8
<212> PRT
<213> Human severe acute respiratory syndrome virus

<400> 1229
Ser Lys Tyr Leu Pro Ile Asp Lys
1 5

<210> 1230
<211> 8
<212> PRT
<213> Human severe acute respiratory syndrome virus

<400> 1230
Ser Val Ile Asp Leu Leu Leu Asn
1 5

<210> 1231
<211> 8
<212> PRT
<213> Human severe acute respiratory syndrome virus

<400> 1231
Leu Leu Leu Asn Asp Phe Val Glu
1 5

<210> 1232
<211> 8
<212> PRT
<213> Human severe acute respiratory syndrome virus

<400> 1232
Leu Leu Asn Asp Phe Val Glu Ile
1 5

<210> 1233
<211> 8
<212> PRT

<213> Human severe acute respiratory syndrome virus

<400> 1233

Leu Asn Asp Phe Val Glu Ile Ile

1 5

<210> 1234

<211> 8

<212> PRT

<213> Human severe acute respiratory syndrome virus

<400> 1234

Asn Asp Phe Val Glu Ile Ile Lys

1 5

<210> 1235

<211> 8

<212> PRT

<213> Human severe acute respiratory syndrome virus

<400> 1235

Leu Val Asp Ser Asp Leu Asn Glu

1 5

<210> 1236

<211> 8

<212> PRT

<213> Human severe acute respiratory syndrome virus

<400> 1236

Val Asp Ser Asp Leu Asn Glu Phe

1 5

<210> 1237

<211> 8

<212> PRT

<213> Human severe acute respiratory syndrome virus

<400> 1237

Asp Ser Asp Leu Asn Glu Phe Val

1 5

<210> 1238

<211> 8

<212> PRT

<213> Human severe acute respiratory syndrome virus

<400> 1238

Ser Asp Leu Asn Glu Phe Val Ser

1 5

<210> 1239

<211> 8

<212> PRT

<213> Human severe acute respiratory syndrome virus

<400> 1239

Asp Leu Asn Glu Phe Val Ser Asp
1 5

<210> 1240
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<400> 1240
Leu Asn Glu Phe Val Ser Asp Ala
1 5

<210> 1241
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<212> PRT
<213> Human severe acute respiratory syndrome virus

<400> 1241
Asn Glu Phe Val Ser Asp Ala Asp
1 5

<210> 1242
<211> 8
<212> PRT
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<400> 1242
Glu Phe Val Ser Asp Ala Asp Ser
1 5

<210> 1243
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<212> PRT
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<400> 1243
Ala Asn Tyr Ile Phe Trp Arg Lys
1 5

<210> 1244
<211> 8
<212> PRT
<213> Human severe acute respiratory syndrome virus

<400> 1244
Asn Tyr Ile Phe Trp Arg Lys Thr
1 5

<210> 1245
<211> 8
<212> PRT
<213> Human severe acute respiratory syndrome virus

<400> 1245
Tyr Ile Phe Trp Arg Lys Thr Asn
1 5

<210> 1246
<211> 8
<212> PRT
<213> Human severe acute respiratory syndrome virus

<400> 1246
Ile Phe Trp Arg Lys Thr Asn Pro
1 5

<210> 1247
<211> 8
<212> PRT
<213> Human severe acute respiratory syndrome virus

<400> 1247
Phe Trp Arg Lys Thr Asn Pro Ile
1 5

<210> 1248
<211> 8
<212> PRT
<213> Human severe acute respiratory syndrome virus

<400> 1248
Trp Arg Lys Thr Asn Pro Ile Gln
1 5

<210> 1249
<211> 8
<212> PRT
<213> Human severe acute respiratory syndrome virus

<400> 1249
Arg Lys Thr Asn Pro Ile Gln Leu
1 5

<210> 1250
<211> 8
<212> PRT
<213> Human severe acute respiratory syndrome virus

<400> 1250
Lys Thr Asn Pro Ile Gln Leu Ser
1 5

<210> 1251
<211> 8
<212> PRT
<213> Human severe acute respiratory syndrome virus

<400> 1251
Ser Ala Asp Ala Ser Thr Phe Phe
1 5

<210> 1252
<211> 8
<212> PRT

<213> Human severe acute respiratory syndrome virus

<400> 1252

Ala Asp Ala Ser Thr Phe Phe Lys

1 5

<210> 1253

<211> 8

<212> PRT

<213> Human severe acute respiratory syndrome virus

<400> 1253

Asp Ala Ser Thr Phe Phe Lys Arg

1 5

<210> 1254

<211> 8

<212> PRT

<213> Human severe acute respiratory syndrome virus

<400> 1254

Ala Ser Thr Phe Phe Lys Arg Val

1 5

<210> 1255

<211> 8

<212> PRT

<213> Human severe acute respiratory syndrome virus

<400> 1255

Ser Thr Phe Phe Lys Arg Val Cys

1 5

<210> 1256

<211> 8

<212> PRT

<213> Human severe acute respiratory syndrome virus

<400> 1256

Thr Phe Phe Lys Arg Val Cys Gly

1 5

<210> 1257

<211> 8

<212> PRT

<213> Human severe acute respiratory syndrome virus

<400> 1257

Phe Phe Lys Arg Val Cys Gly Val

1 5

<210> 1258

<211> 8

<212> PRT

<213> Human severe acute respiratory syndrome virus

<400> 1258

Phe Lys Arg Val Cys Gly Val Ser
1 5

<210> 1259
<211> 8
<212> PRT
<213> Human severe acute respiratory syndrome virus

<400> 1259
Lys Arg Val Cys Gly Val Ser Ala
1 5

<210> 1260
<211> 8
<212> PRT
<213> Human severe acute respiratory syndrome virus

<400> 1260
Glu Leu Phe Tyr Ser Tyr Ala Ile
1 5

<210> 1261
<211> 8
<212> PRT
<213> Human severe acute respiratory syndrome virus

<400> 1261
Leu Phe Tyr Ser Tyr Ala Ile His
1 5

<210> 1262
<211> 8
<212> PRT
<213> Human severe acute respiratory syndrome virus

<400> 1262
Phe Tyr Ser Tyr Ala Ile His His
1 5

<210> 1263
<211> 8
<212> PRT
<213> Human severe acute respiratory syndrome virus

<400> 1263
Tyr Ser Tyr Ala Ile His His Asp
1 5

<210> 1264
<211> 8
<212> PRT
<213> Human severe acute respiratory syndrome virus

<400> 1264
Ser Tyr Ala Ile His His Asp Lys
1 5

<210> 1265
<211> 8
<212> PRT
<213> Human severe acute respiratory syndrome virus

<400> 1265
Tyr Ala Ile His His Asp Lys Phe
1 5

<210> 1266
<211> 8
<212> PRT
<213> Human severe acute respiratory syndrome virus

<400> 1266
Ala Ile His His Asp Lys Phe Thr
1 5

<210> 1267
<211> 8
<212> PRT
<213> Human severe acute respiratory syndrome virus

<400> 1267
Ile His His Asp Lys Phe Thr Asp
1 5

<210> 1268
<211> 14
<212> PRT
<213> Unknown Organism

<220>
<223> Illustrative peptide having high affinity for its antigen

<400> 1268
Gly Ala Thr Pro Glu Asp Leu Asn Gln Lys Leu Ala Gly Asn
1 5 10

<210> 1269
<211> 17
<212> PRT
<213> Tobacco mosaic virus

<400> 1269
Cys Arg Gly Thr Gly Ser Tyr Asn Arg Ser Ser Phe Glu Ser Ser Ser
1 5 10 15

Gly

<210> 1270
<211> 15
<212> PRT
<213> Unknown Organism

<220>
<223> Illustrative peptide having high affinity for its antigen

<400> 1270
Asn Tyr Arg Ala Tyr Ala Thr Glu Pro His Ala Lys Lys Lys Ser
1 5 10 15

<210> 1271
<211> 10
<212> PRT
<213> Homo sapiens

<400> 1271
Arg Tyr Asp Ile Glu Ala Lys Val Thr Lys
1 5 10

<210> 1272
<211> 8
<212> PRT
<213> Unknown Organism

<220>
<223> Illustrative peptide having high affinity for its antigen

<400> 1272
Asp Arg Val Tyr Ile His Pro Phe
1 5

<210> 1273
<211> 12
<212> PRT
<213> Homo sapiens

<400> 1273
Pro Gln Ser Asp Pro Ser Val Glu Pro Pro Leu Ser
1 5 10

<210> 1274
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic HA tag

<400> 1274
Tyr Asp Val Pro Asp Tyr Ala Ser
1 5

<210> 1275
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic FLAG tag

<400> 1275
Met Asp Tyr Lys Ala Phe Asp Asn
1 5

<210> 1276
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic 5-His tag

<400> 1276
His His His His His
1 5

<210> 1277
<211> 8
<212> PRT
<213> Homo sapiens

<400> 1277
Glu Pro Ala Glu Leu Thr Asp Ala
1 5

<210> 1278
<211> 8
<212> PRT
<213> Homo sapiens

<400> 1278
Tyr Glu Val Gln Gly Glu Val Phe
1 5

<210> 1279
<211> 8
<212> PRT
<213> Homo sapiens

<400> 1279
Gly Tyr Ser Ile Phe Ser Tyr Ala
1 5

<210> 1280
<211> 12
<212> PRT
<213> Homo sapiens

<400> 1280
Leu Ser Glu Pro Ala Glu Leu Thr Asp Ala Val Lys
1 5 10

<210> 1281
<211> 16
<212> PRT
<213> Homo sapiens

<400> 1281
Asp Glu Pro Val Glu Leu Thr Ser Ala Pro Thr Gly His Thr Phe Ser
1 5 10 15

<210> 1282
<211> 17
<212> PRT
<213> Homo sapiens

<400> 1282
Ala Gly Glu Ala Ala Glu Leu Gln Asp Ala Glu Val Glu Ser Ser Ala
1 5 10 15

Lys

<210> 1283
<211> 15
<212> PRT
<213> Homo sapiens

<400> 1283
Leu Gln Glu Pro Ala Glu Leu Val Glu Ser Asp Gly Val Pro Lys
1 5 10 15

<210> 1284
<211> 12
<212> PRT
<213> Homo sapiens

<400> 1284
Ala Gln Pro Ala Glu Leu Val Asp Ser Ser Gly Trp
1 5 10

<210> 1285
<211> 14
<212> PRT
<213> Homo sapiens

<400> 1285
Gly Leu Asp Pro Thr Gln Leu Thr Asp Ala Leu Thr Gln Arg
1 5 10

<210> 1286
<211> 10
<212> PRT
<213> Homo sapiens

<400> 1286
Tyr Glu Val Gln Gly Glu Val Phe Thr Lys
1 5 10

<210> 1287
<211> 11
<212> PRT
<213> Homo sapiens

<400> 1287
His Val Glu Val Asn Gly Glu Val Phe Gln Lys
1 5 10

<210> 1288
<211> 11
<212> PRT
<213> Homo sapiens

<400> 1288
Ser Tyr Glu Val Leu Gly Glu Glu Phe Asp Arg
1 5 10

<210> 1289
<211> 13
<212> PRT
<213> Homo sapiens

<400> 1289
Gln Tyr Ala Val Ser Gly Glu Ile Phe Val Val Asp Arg
1 5 10

<210> 1290
<211> 11
<212> PRT
<213> Homo sapiens

<400> 1290
Val Tyr Glu Glu Gln Gly Glu Ile Ile Leu Lys
1 5 10

<210> 1291
<211> 11
<212> PRT
<213> Homo sapiens

<400> 1291
Leu Tyr Glu Val Arg Gly Glu Thr Tyr Leu Lys
1 5 10

<210> 1292
<211> 8
<212> PRT
<213> Homo sapiens

<400> 1292
Glu Pro Val Glu Leu Thr Ser Ala
1 5

<210> 1293
<211> 8
<212> PRT
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<400> 1293

Asp Pro Thr Gln Leu Thr Asp Ala
1 5

<210> 1294
<211> 8
<212> PRT
<213> Homo sapiens

<400> 1294
Val Glu Val Asn Gly Glu Val Phe
1 5

<210> 1295
<211> 8
<212> PRT
<213> Homo sapiens

<400> 1295
Tyr Glu Val Leu Gly Glu Glu Phe
1 5

<210> 1296
<211> 24
<212> PRT
<213> Homo sapiens

<400> 1296
His Ser Gln Pro Trp Gln Val Ala Val Tyr Ser His Gly Trp Ala His
1 5 10 15

Cys Gly Gly Val Leu Val His Arg
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<210> 1297
<211> 33
<212> PRT
<213> Homo sapiens

<400> 1297
Ile Val Gly Gly Trp Glu Cys Glu Gln His Ser Gln Pro Trp Gln Ala
1 5 10 15

Ala Leu Tyr His Phe Ser Thr Phe Gln Cys Gly Gly Ile Leu Val His
20 25 30

Lys

<210> 1298
<211> 24
<212> PRT
<213> Homo sapiens

<400> 1298

Gly Ser Gln Pro Trp Gln Val Ser Leu Phe Asn Gly Leu Ser Phe His
1 5 10 15

Cys Ala Gly Val Leu Val Asp Arg
20

<210> 1299
<211> 16
<212> PRT
<213> Homo sapiens

<400> 1299
Asn Ser Gln Pro Trp Gln Val Gly Leu Phe Glu Gly Thr Ser Leu Arg
1 5 10 15

<210> 1300
<211> 29
<212> PRT
<213> Homo sapiens

<400> 1300
His Glu Cys Gln Pro His Ser Gln Pro Trp Gln Ala Ala Leu Phe Gln
1 5 10 15

Gly Gln Gln Leu Leu Cys Gly Gly Val Leu Val Gly Arg
20 25

<210> 1301
<211> 29
<212> PRT
<213> Homo sapiens

<400> 1301
Glu Asp Cys Ser Pro His Ser Gln Pro Trp Gln Ala Ala Leu Val Met
1 5 10 15

Glu Asn Glu Leu Phe Cys Ser Gly Val Leu Val His Arg
20 25

<210> 1302
<211> 33
<212> PRT
<213> Homo sapiens

<400> 1302
Val Leu Asn Thr Asn Gly Thr Ser Gly Phe Leu Pro Gly Gly Tyr Thr
1 5 10 15

Cys Phe Pro His Ser Gln Pro Trp Gln Ala Ala Leu Leu Val Gln Gly
20 25 30

Arg

<210> 1303
<211> 21
<212> PRT
<213> Homo sapiens

<400> 1303
Leu Leu Glu Gly Asp Glu Cys Ala Pro His Ser Gln Pro Trp Gln Val
1 5 10 15

Ala Leu Tyr Glu Arg
20

<210> 1304
<211> 15
<212> PRT
<213> Homo sapiens

<400> 1304
Pro Asn Ser Gln Pro Trp Gln Ala Gly Leu Phe His Leu Thr Arg
1 5 10 15

<210> 1305
<211> 22
<212> PRT
<213> Homo sapiens

<400> 1305
Cys Val Thr Ala Gly Thr Ser Cys Leu Ile Ser Gly Trp Gly Ser Thr
1 5 10 15

Ser Ser Pro Gln Leu Arg
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<210> 1306
<211> 32
<212> PRT
<213> Homo sapiens

<400> 1306
Val Met Asp Leu Pro Thr Gln Glu Pro Ala Leu Gly Thr Thr Cys Tyr
1 5 10 15

Ala Ser Gly Trp Gly Ser Ile Glu Pro Glu Glu Phe Leu Thr Pro Lys
20 25 30

<210> 1307
<211> 44
<212> PRT
<213> Homo sapiens

<400> 1307

Arg Leu Asn Pro Gln Val Arg Pro Ala Val Leu Pro Thr Arg Cys Pro
1 5 10 15

His Pro Gly Glu Ala Cys Val Val Ser Gly Trp Gly Leu Val Ser His
20 25 30

Glu Pro Gly Thr Ala Gly Ser Pro Arg Ser Gln Gly
35 40

<210> 1308
<211> 5
<212> PRT
<213> Homo sapiens

<400> 1308
Arg Leu Asn Pro Gln
1 5

<210> 1309
<211> 40
<212> PRT
<213> Homo sapiens

<400> 1309
Arg Leu Asn Pro Gln Gly Asp Ser Gly Gly Pro Leu Val Cys Gly Gly
1 5 10 15

Ile Leu Gln Gly Ile Val Ser Trp Gly Asp Val Pro Cys Asp Asn Thr
20 25 30

Thr Lys Pro Gly Val Tyr Thr Lys
35 40

<210> 1310
<211> 8
<212> PRT
<213> Homo sapiens

<400> 1310
Ser Gly Trp Gly Leu Val Ser His
1 5

<210> 1311
<211> 8
<212> PRT
<213> Homo sapiens

<400> 1311
Ala Gly Trp Gly Ile Val Asn His
1 5

<210> 1312
<211> 8

<212> PRT
<213> Homo sapiens

<400> 1312
Ser Gly Trp Gly Ile Thr Asn His
1 5

<210> 1313
<211> 8
<212> PRT
<213> Homo sapiens

<400> 1313
Ser Gly Trp Gly Met Val Thr Glu
1 5

<210> 1314
<211> 8
<212> PRT
<213> Homo sapiens

<400> 1314
Trp Gly Asp Val Pro Cys Asp Asn
1 5

<210> 1315
<211> 8
<212> PRT
<213> Homo sapiens

<400> 1315
Trp Lys Asp Val Pro Cys Glu Asp
1 5

<210> 1316
<211> 8
<212> PRT
<213> Homo sapiens

<400> 1316
Trp Asn Asp Ala Pro Cys Asp Ser
1 5

<210> 1317
<211> 8
<212> PRT
<213> Homo sapiens

<400> 1317
Trp Asn Asp Ala Pro Cys Asp Lys
1 5

<210> 1318
<211> 19
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide tag

<400> 1318

Met	Asp	Tyr	Lys	Ala	Phe	Asp	Asn	Leu	Glu	Gln	Lys	Leu	Ile	Ser	Glu
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Glu Asp Leu

<210> 1319

<211> 28

<212> PRT

<213> Homo sapiens

<220>

<221> MOD_RES

<222> (8)

<223> phosphoTyr

<220>

<221> MOD_RES

<222> (25)

<223> phosphoSer

<400> 1319

Asn	Ser	Phe	Asn	Asn	Pro	Ala	Tyr	Tyr	Val	Leu	Glu	Gly	Val	Pro	His
1				5				10					15		

Gln	Leu	Leu	Pro	Pro	Glu	Pro	Pro	Ser	Pro	Ala	Arg
			20				25				

<210> 1320

<211> 8

<212> PRT

<213> Homo sapiens

<400> 1320

Tyr	Leu	Thr	Glu	Gly	Val	Pro	His
1				5			

<210> 1321

<211> 8

<212> PRT

<213> Homo sapiens

<400> 1321

Tyr	Ile	Leu	Glu	Ser	Met	Pro	His
1				5			

<210> 1322

<211> 8

<212> PRT

<213> Homo sapiens

<400> 1322

Tyr Val Ile Met Gly Met Pro His
1 5

<210> 1323
<211> 15
<212> PRT
<213> Homo sapiens

<220>
<221> MOD_RES
<222> (6)
<223> phosphoTyr

<400> 1323
Leu Gly Gly Gly Gln Tyr Gly Glu Val Tyr Glu Gly Val Trp Lys
1 5 10 15

<210> 1324
<211> 8
<212> PRT
<213> Homo sapiens

<400> 1324
Glu Val Tyr Val Gly Val Trp Lys
1 5

<210> 1325
<211> 8
<212> PRT
<213> Homo sapiens

<400> 1325
Glu Val Phe Glu Gly Leu Trp Lys
1 5

<210> 1326
<211> 8
<212> PRT
<213> Homo sapiens

<400> 1326
Glu Val Tyr Glu Gly Val Tyr Thr
1 5

<210> 1327
<211> 23
<212> PRT
<213> Unknown Organism

<220>
<223> Description of Unknown Organism: Illustrative
parental tryptic peptide

<400> 1327
Trp Ser Gly Ser His Gln Phe Glu Gln Leu Ser Gly Ser Ile Leu Trp
1 5 10 15

Met Ala Pro Glu Val Ile Arg
20

<210> 1328
<211> 16
<212> PRT
<213> Unknown Organism

<220>
<223> Description of Unknown Organism: Illustrative
parental tryptic peptide

<400> 1328
Met Ser Phe Ala Gly Thr Val Ala Trp Met Ala Pro Glu Val Ile Arg
1 5 10 15

<210> 1329
<211> 18
<212> PRT
<213> Unknown Organism

<220>
<223> Description of Unknown Organism: Illustrative
parental tryptic peptide

<400> 1329
Ser Phe Ile Gly Thr Pro Tyr Trp Met Ala Pro Glu Val Ala Ala Val
1 5 10 15

Glu Arg

<210> 1330
<211> 12
<212> PRT
<213> Unknown Organism

<220>
<223> Description of Unknown Organism: Illustrative
parental tryptic peptide

<400> 1330
Trp Met Ala Pro Glu Val Phe Thr Gln Cys Thr Arg
1 5 10

<210> 1331
<211> 20
<212> PRT
<213> Unknown Organism

<220>
<223> Description of Unknown Organism: Illustrative
parental tryptic peptide

<400> 1331
Leu Ser Phe Ile Gly Thr Pro Tyr Trp Met Ala Pro Glu Val Ala Ala
1 5 10 15

Val Ala Leu Lys
20

<210> 1332
<211> 21
<212> PRT
<213> Unknown Organism

<220>
<223> Description of Unknown Organism: Illustrative
parental tryptic peptide

<400> 1332
Asp Ser Phe Ile Gly Thr Pro Tyr Trp Met Ala Pro Glu Val Val Met
1 5 10 15

Cys Glu Thr Met Lys
20

<210> 1333
<211> 16
<212> PRT
<213> Unknown Organism

<220>
<223> Description of Unknown Organism: Illustrative
parental tryptic peptide

<400> 1333
Met Ser Phe Ala Gly Thr Val Ala Trp Met Ala Pro Glu Val Ile Arg
1 5 10 15

<210> 1334
<211> 21
<212> PRT
<213> Unknown Organism

<220>
<223> Description of Unknown Organism: Illustrative
parental tryptic peptide

<400> 1334
Ser Met His Gly Thr Pro Tyr Trp Met Ala Pro Glu Val Ile Asn Glu
1 5 10 15

Ser Gly Tyr Gly Arg
20

<210> 1335
<211> 24
<212> PRT
<213> Unknown Organism

<220>
<223> Description of Unknown Organism: Illustrative
parental tryptic peptide

<400> 1335

Asn Thr Val Ile Gly Thr Pro Phe Trp Met Ala Pro Glu Val Ile Gln
1 5 10 15

Glu Ile Gly Tyr Asn Cys Val Arg
20

<210> 1336

<211> 23

<212> PRT

<213> Unknown Organism

<220>

<223> Description of Unknown Organism: Illustrative
parental tryptic peptide

<400> 1336

Asn Thr Phe Val Gly Thr Pro Phe Trp Met Ala Pro Glu Val Ile Gln
1 5 10 15

Gln Ser Ala Tyr Asp Ser Lys
20

<210> 1337

<211> 28

<212> PRT

<213> Unknown Organism

<220>

<223> Description of Unknown Organism: Illustrative
parental tryptic peptide

<400> 1337

Asn Thr Ser Val Gly Thr Pro Phe Trp Met Ala Pro Glu Val Ile Ala
1 5 10 15

Cys Glu Gln Gln Leu Asp Thr Thr Tyr Asp Ala Arg
20 25

<210> 1338

<211> 28

<212> PRT

<213> Unknown Organism

<220>

<223> Description of Unknown Organism: Illustrative
parental tryptic peptide

<400> 1338

Asn Thr Ser Val Gly Thr Pro Phe Trp Met Ala Pro Glu Val Ile Ala
1 5 10 15

Cys Glu Gln Gln Tyr Asp Ser Ser Tyr Asp Ala Arg
20 25

<210> 1339

<211> 28
<212> PRT
<213> Unknown Organism

<220>
<223> Description of Unknown Organism: Illustrative
parental tryptic peptide

<400> 1339
Asn Thr Phe Ile Gly Thr Pro Tyr Trp Met Ala Pro Glu Val Ile Ala
1 5 10 15

Cys Asp Glu Asn Pro Asp Ala Thr Tyr Asp Tyr Arg
20 25

<210> 1340
<211> 18
<212> PRT
<213> Unknown Organism

<220>
<223> Description of Unknown Organism: Illustrative
parental tryptic peptide

<400> 1340
Thr Phe Val Gly Thr Pro Cys Trp Met Ala Pro Glu Val Met Glu Gln
1 5 10 15

Val Arg

<210> 1341
<211> 17
<212> PRT
<213> Unknown Organism

<220>
<223> Description of Unknown Organism: Illustrative
parental tryptic peptide

<400> 1341
Ser Thr Met Val Gly Thr Pro Tyr Trp Met Ala Pro Glu Val Val Thr
1 5 10 15

Arg

<210> 1342
<211> 16
<212> PRT
<213> Unknown Organism

<220>
<223> Description of Unknown Organism: Illustrative
parental tryptic peptide

<400> 1342

Ser Leu Val Gly Thr Pro Tyr Trp Met Ala Pro Glu Val Ile Ser Arg
1 5 10 15

<210> 1343

<211> 23

<212> PRT

<213> Unknown Organism

<220>

<223> Description of Unknown Organism: Illustrative
parental tryptic peptide

<400> 1343

Trp Ser Gly Ser Gln Gln Val Glu Gln Pro Thr Gly Ser Val Leu Trp
1 5 10 15

Met Ala Pro Glu Val Ile Arg
20

<210> 1344

<211> 18

<212> PRT

<213> Unknown Organism

<220>

<223> Description of Unknown Organism: Illustrative
parental tryptic peptide

<400> 1344

Thr Phe Val Gly Thr Pro Cys Trp Met Ala Pro Glu Val Met Glu Gln
1 5 10 15

Val Arg

<210> 1345

<211> 33

<212> PRT

<213> Unknown Organism

<220>

<223> Description of Unknown Organism: Illustrative
parental tryptic peptide

<400> 1345

Ala Ser Met Ala Ser Pro Ala Asn Ser Phe Val Gly Thr Pro Tyr Trp
1 5 10 15

Met Ala Pro Glu Val Ile Leu Ala Met Asp Glu Gly Gln Tyr Asp Gly
20 25 30

Lys

<210> 1346

<211> 33

<212> PRT

<213> Unknown Organism

<220>

<223> Description of Unknown Organism: Illustrative
parental tryptic peptide

<400> 1346

Ala	Ser	Ile	Met	Ala	Pro	Ala	Asn	Ser	Phe	Val	Gly	Thr	Pro	Tyr	Trp
1				5					10					15	

Met	Ala	Pro	Glu	Val	Ile	Leu	Ala	Met	Asp	Glu	Gly	Gln	Tyr	Asp	Gly
			20					25					30		

Lys

<210> 1347

<211> 18

<212> PRT

<213> Unknown Organism

<220>

<223> Description of Unknown Organism: Illustrative
parental tryptic peptide

<400> 1347

Glu	Pro	Leu	Ala	Val	Val	Gly	Ser	Pro	Tyr	Trp	Met	Ala	Pro	Glu	Val
1				5					10					15	

Leu Arg

<210> 1348

<211> 22

<212> PRT

<213> Unknown Organism

<220>

<223> Description of Unknown Organism: Illustrative
parental tryptic peptide

<400> 1348

Thr	Thr	His	Met	Ser	Leu	Val	Gly	Thr	Phe	Pro	Trp	Met	Ala	Pro	Glu
1				5					10					15	

Val	Ile	Gln	Ser	Leu	Arg
				20	

<210> 1349

<211> 63

<212> PRT

<213> Human severe acute respiratory system virus

<400> 1349

Met	Phe	His	Leu	Val	Asp	Phe	Gln	Val	Thr	Ile	Ala	Glu	Ile	Leu	Ile
1				5					10					15	

Ile Ile Met Arg Thr Phe Arg Ile Ala Ile Trp Asn Leu Asp Val Ile
20 25 30

Ile Ser Ser Ile Val Arg Gln Leu Phe Lys Pro Leu Thr Lys Lys Asn
35 40 45

Tyr Ser Glu Leu Asp Asp Glu Glu Pro Met Glu Leu Asp Tyr Pro
50 55 60

<210> 1350
<211> 8
<212> PRT
<213> Homo sapiens

<400> 1350
Met Phe Asp Leu Val Asp Tyr Lys
1 5

<210> 1351
<211> 8
<212> PRT
<213> Homo sapiens

<400> 1351
Met Phe His Pro Met Asp Phe Glu
1 5

<210> 1352
<211> 8
<212> PRT
<213> Unknown Organism

<220>
<223> Description of Unknown Organism: Coronavirus
peptide

<400> 1352
Ser Phe His Phe Ile Asp Phe Tyr
1 5

<210> 1353
<211> 8
<212> PRT
<213> Homo sapiens

<400> 1353
Tyr Ser Glu Leu Asp Gly Glu Glu
1 5

<210> 1354
<211> 8
<212> PRT
<213> Unknown Organism

<220>
<223> Description of Unknown Organism: Coronavirus
peptide

<400> 1354
Tyr Ser Ser Leu Asn Asp Glu Phe
1 5

<210> 1355
<211> 36
<212> PRT
<213> Homo sapiens

<400> 1355
Lys Val Leu Ala Leu Tyr Asn Gln His Asn Pro Gly Ala Ser Ala Ala
1 5 10 15
Pro Cys Cys Val Pro Gln Ala Leu Glu Pro Leu Pro Ile Val Tyr Tyr
20 25 30
Val Gly Arg Lys
35

<210> 1356
<211> 8
<212> PRT
<213> Homo sapiens

<400> 1356
Asn His His Ser Pro Gly Gly Ser
1 5

<210> 1357
<211> 8
<212> PRT
<213> Homo sapiens

<400> 1357
Gln Gln His Asn Pro Ala Ala Asn
1 5

<210> 1358
<211> 8
<212> PRT
<213> Homo sapiens

<400> 1358
Asn Lys His Gly Pro Gly Val Ser
1 5

<210> 1359
<211> 8
<212> PRT
<213> Homo sapiens

<400> 1359
Glu Pro Leu Thr Ile Leu Tyr Tyr
1 5

<210> 1360

<211> 8
<212> PRT
<213> Homo sapiens

<400> 1360
Asp Pro Leu Pro Val Arg Tyr Tyr
1 5

<210> 1361
<211> 8
<212> PRT
<213> Homo sapiens

<400> 1361
Glu Pro Leu Pro Ser Gln Tyr Tyr
1 5

<210> 1362
<211> 36
<212> PRT
<213> Homo sapiens

<400> 1362
Arg Val Leu Ser Leu Tyr Asn Thr Ile Asn Pro Glu Ala Ser Ala Ser
1 5 10 15

Pro Cys Cys Val Ser Gln Asp Leu Glu Pro Leu Thr Ile Leu Tyr Tyr
20 25 30

Ile Gly Lys Thr
35

<210> 1363
<211> 8
<212> PRT
<213> Homo sapiens

<400> 1363
Asn Thr Leu Asn Pro Glu Ala Ser
1 5

<210> 1364
<211> 8
<212> PRT
<213> Homo sapiens

<400> 1364
Asn Lys Leu Asp Pro Glu Ala Ser
1 5

<210> 1365
<211> 8
<212> PRT
<213> Homo sapiens

<400> 1365

Asn Thr Ala Asn Pro Glu Arg Ser
1 5

<210> 1366
<211> 8
<212> PRT
<213> Homo sapiens

<400> 1366
Pro Gln Asp Leu Glu Pro Leu Thr
1 5

<210> 1367
<211> 8
<212> PRT
<213> Homo sapiens

<400> 1367
Ser Glu Asp Leu Glu Pro Leu Ala
1 5

<210> 1368
<211> 8
<212> PRT
<213> Homo sapiens

<400> 1368
Ser Gln Asp Leu Asp Pro Met Ala
1 5

<210> 1369
<211> 44
<212> PRT
<213> Homo sapiens

<400> 1369
Arg Ser Ala Asp Thr Thr His Ser Thr Val Leu Gly Leu Tyr Asn Thr
1 5 10 15

Leu Asn Pro Glu Ala Ser Ala Ser Pro Cys Cys Val Pro Gln Asp Leu
20 25 30

Glu Pro Leu Thr Ile Leu Tyr Tyr Val Gly Arg Thr
35 40

<210> 1370
<211> 8
<212> PRT
<213> Homo sapiens

<400> 1370
Ser Ala His Ser Thr His Ser Thr
1 5

<210> 1371
<211> 8
<212> PRT

<213> Homo sapiens

<400> 1371

Ser Ser Asp Thr Thr His Ala Ser
1 5

<210> 1372

<211> 8

<212> PRT

<213> Homo sapiens

<400> 1372

Ala Ala Glu Ala Thr His Ser Thr
1 5

<210> 1373

<211> 8

<212> PRT

<213> Homo sapiens

<400> 1373

Asn Thr Ile Asn Pro Glu Ala Ser
1 5

<210> 1374

<211> 8

<212> PRT

<213> Homo sapiens

<400> 1374

Asn Lys Leu Asp Pro Glu Ala Ser
1 5

<210> 1375

<211> 8

<212> PRT

<213> Homo sapiens

<400> 1375

Asn Thr Ala Asn Pro Glu Arg Ser
1 5

<210> 1376

<211> 41

<212> PRT

<213> Homo sapiens

<400> 1376

Met Lys Trp Ala Lys Asn Trp Val Leu Glu Pro Pro Gly Phe Leu Ala
1 5 10 15

Tyr Glu Cys Val Gly Thr Cys Gln Gln Pro Pro Glu Ala Leu Ala Phe
20 25 30

Asn Trp Pro Phe Leu Gly Pro Arg Gln
35 40

<210> 1377
<211> 8
<212> PRT
<213> Homo sapiens

<400> 1377
Asn Trp Ala Val Asp Pro Pro Gly
1 5

<210> 1378
<211> 8
<212> PRT
<213> Homo sapiens

<400> 1378
His Trp Val Val Ser Pro Pro Gly
1 5

<210> 1379
<211> 8
<212> PRT
<213> Homo sapiens

<400> 1379
Asn Trp Val Arg Leu Pro Pro Gly
1 5

<210> 1380
<211> 8
<212> PRT
<213> Homo sapiens

<400> 1380
Gln Pro Pro Glu Ala Phe Gly Phe
1 5

<210> 1381
<211> 8
<212> PRT
<213> Homo sapiens

<400> 1381
Lys Pro Pro Glu Ala Leu Ala Met
1 5

<210> 1382
<211> 8
<212> PRT
<213> Homo sapiens

<400> 1382
Gln Pro Pro Glu Ala Lys Lys Phe
1 5

<210> 1383
<211> 6
<212> PRT

<213> Homo sapiens

<400> 1383

Arg His Arg Arg Ala Leu

1 5

<210> 1384

<211> 6

<212> PRT

<213> Homo sapiens

<400> 1384

Arg Lys Lys Arg Ala Leu

1 5

<210> 1385

<211> 6

<212> PRT

<213> Homo sapiens

<400> 1385

Arg Lys Lys Arg Ala Leu

1 5

<210> 1386

<211> 4

<212> PRT

<213> Homo sapiens

<400> 1386

Arg His Arg Arg

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